

$\mu mc 2_1$

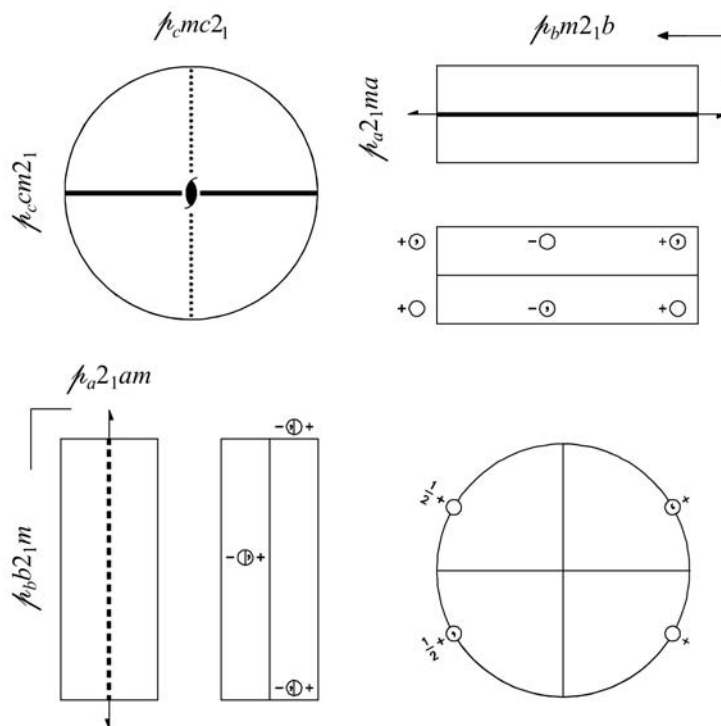
$mm2$

Orthorhombic

No. 17

$\mu mc 2_1$

Patterson symmetry  $\mu mmm$



**Origin** on  $mc 2_1$

**Asymmetric unit**  $0 \leq x; 0 \leq y; 0 \leq z \leq 1$

**Symmetry operations**

- (1) 1      (2)  $2(\frac{1}{2})$   $0, 0, z$       (3)  $c$   $x, 0, z$       (4)  $m$   $0, y, z$

**Generators selected** (1);  $t(0,0,1)$ ; (2); (3)

**Positions**

Multiplicity, Wyckoff letter, Site symmetry	Coordinates				Reflection conditions
					General:
4 <i>b</i> 1	(1) $x, y, z$	(2) $\bar{x}, \bar{y}, z + \frac{1}{2}$	(3) $x, \bar{y}, z + \frac{1}{2}$	(4) $\bar{x}, y, z$	$l : l = 2n$
					Special: no extra conditions
2 <i>a</i> $m..$	$0, y, z$	$0, \bar{y}, z + \frac{1}{2}$			

**Symmetry of special projections**

Along [001] $2mm$	Along [100] $\mu 11g$	Along [010] $\mu 11m$
Origin at $0,0,z$	$\mathbf{a}' = \mathbf{c}$ Origin at $x,0,0$	$\mathbf{a}' = \frac{1}{2}\mathbf{c}$ Origin at $0,y,0$

**Maximal non-isotypic non-enantiomorphic subgroups**

<b>I</b>	$[2] \mu 112_1 (9)$	1; 2
	$[2] \mu 1c1 (\mu c 11, 5)$	1; 3
	$[2] \mu m 11 (4)$	1; 4

**IIa** none

**IIb** none

**Maximal isotypic subgroups and enantiomorphic subgroups of lowest index**

**IIc**  $[3] \mu mc 2_1 (\mathbf{c}' = 3\mathbf{c}) (17)$

**Minimal non-isotypic non-enantiomorphic supergroups**

**I**  $[2] \mu mcm (22)$ ;  $[3] \mu 6_3 mc (70)$

**II**  $[2] \mu mm 2 (\mathbf{c}' = \frac{1}{2}\mathbf{c}) (15)$